DEPARTMENT OF HEALTH AND HUMAN SERVICESFood and Drug Administration

Food Process Filing for Acidified Method (Form FDA 2541e)

Note: There are separate process filing forms for each of the following: Food Process Filing for Low-Acid Retorted Method (Form FDA 2541d); Food Process Filing for Acidified Method (Form FDA 2541e); Food Process Filing for Water Activity/Formulation Control Method (Form FDA 2541f); and Food Process Filing for Low-Acid Aseptic Systems (Form FDA 2541g).

USE FDA INSTRUCTIONS ENTITLED "Instructions for Paper Submission of Form FDA 2541e (Food Process Filing for Acidified	l Method)"
Date Received by FDA // (MM/DD/YYYY) (FDA USE ONLY)	
Food Canning Establishment (FCE) Number: Submission Identifier (SID) 20 / (YYYY-MM-DD/SSS)	
A. Product Information: Note: Section A.1 (Food Product Group) requests optional information.	
1. (Optional) Select one Food Product Group. If there is no single best Food Product Group that applies, select Other.	
☐ Aquaculture Seafood (e.g., farming of aquatic organisms including fish, mollusks, crustaceans, etc.); ☐ Baby Food;	
Beans, Corn, or Peas (Select one): Beans or Peas - Dry or Mature Soaked; Beans, Corn, Peas - Fresh Succulent;	
Berry/Citrus/Core Fruit (Select one): Berry/Citrus/Core Fruit; Berry/Citrus/Core Fruit as a Jam, Jelly, Preserve, Drink, Syrup, Topping;	
☐ Beverage Base; ☐ Breakfast Foods (liquid form – ready-to-eat, such as porridge, gruel); ☐ Cheese (does not include soy cheese or imitation dairy); ☐ botanical teas);	Cocoa; Coffee/Teas (excluding herbal and
☐ Crustacean (e.g., crab, shrimp, lobster, etc.); ☐ Dairy (milk-based); ☐ Dietary Supplement and/or herbal and botanical teas;	
☐ Dressings/Condiments (e.g., salad dressing, chutney, salsa, pepper sauce, etc.); ☐ Engineered Seafood (e.g., shelf-stable imitation crab, surimi, etc.);	
🗆 Exotic Meat (includes sausages such as vienna sausage, etc.); 🗀 Fishery (finfish) 🗀 Fishery (other aquatic (e.g., alligator, cuttlefish, frog legs, squid, e	etc.));
Fruit as a Vegetable (Select one): Fruit as a Vegetable (e.g., eggplant, pumpkin, etc.) Fruit as a Vegetable Juice or Drink (e.g., eggplant juice, pumpkin, etc.)	pkin juice, etc.);
☐ Fungi (e.g., mushrooms, pleurotus, truffles, etc.); ☐ Gelatin, Pudding Filling for Pies, Pie Filling (liquid form ready-to-eat such as apple pie filling, etc.)); [Imitation Dairy (includes soy-based products);
Imitation/Pit/Mixed /Subtropical Fruit (Select one): Imitation/Pit/Mixed/Subtropical Fruit; Imitation/Pit/Mixed/Subtropical Fruit as a Jam, Jelly,	Preserve, Drink, Syrup, Topping;
Leafy/Stem Vegetables (Select one): Leafy/Stem Vegetable; Leafy/Stem Vegetable as a Juice or Drink (e.g., spinach juice, etc.);	
☐ Meal Replacement/Medical Foods (e.g., supplemental liquid nutrition, etc.); ☐ Mixed Fishery (e.g., seafood salad, seafood bisque, etc.); Confidential Page 1	Form FDA 2541e

Mixed Vegetables (Select one): \square N	fixed Vegetables (e.g., carrots and peas, etc); Mixed Vegetables as a Juice or Drink (e.g., carrot and green bean juice, etc.);
☐ Multiple Food (one container with	a separate compartment for each product item. e.g., lasagna dinner, chop suey dinner, etc.); 🔲 Noodle/Pasta; 🔲 Nut Spread and Nut Topping; 🔲 Other Vegetables;
Pet Food (e.g., dog/cat food, etc.);	☐ Rice, Wheat, Oat or Grain (liquid form – ready-to-eat such as grits);
Root and Tuber Vegetables (Select o	one): Root/Tuber Vegetables (e.g., carrots, leeks, potatoes, etc.); Root/Tuber Vegetables as a Juice or Drink (e.g., carrot juice, etc.);
☐ Shelled Egg; ☐ Shellfish (e.g., cla	ıms, mussels, oysters, etc.); 🗌 Soup (does not include seafood-type soups); 🔲 Sweet Goods/Dessert (liquid form – ready-to-eat, such as pudding);
Vine/Other Fruit (Select one):	ine/Other Fruit; 🔲 Vine/Other Fruit as a Jam, Jelly, Preserve, Drink, Syrup, Topping; 🔲 Wine Cooler; 🔲 Other
2. Enter Product Name (e.g., salsa (r	nild, medium, hot), artichokes (marinated), peppers (red or green), etc.).
3. What is the form of the product?	☐ Chunks (e.g., chunks, nuggets, etc.) ☐ Cut ☐ Diced ☐ Fillet ☐ French Cut ☐ Liquid (i.e., all liquid no solids) ☐ On the Cob ☐ Paste/Puree ☐ Pieces ☐ Round/Spheres ☐ Shredded/Julienne ☐ Sliced (e.g., slices, quarters, strips, etc.) ☐ Spears/Stalks ☐ Whole ☐ Other
4. What is the packing medium?	☐ Brine ☐ Cream/Sauce/Gravy ☐ Oil ☐ Solid (no packing medium) ☐ Syrup ☐ Water ☐ None (i.e., the product is all liquid) ☐ Other
Continue to Section B.	
B. Governing Regulation: (Select	et one)
2. Voluntary (The processor has determinations regarding the regular	ted food and is governed by 21 CFR 108.25 and 21 CFR Part 114) concluded that the product is not an acidified food. The processor is voluntarily submitting process information about the product to facilitate FDA story status of the product.) If you select this option, attach documentation to support the determination that the product is not an acidified food. If the product appears to a process flow diagram of fermentation processes, including the pH at each step.
Continue to Section C.	
C. Container Type: (Select one) Note: If the product is not package	l in one of the container types identified below, select "Other" option.
b) How many pieces are used to coi. ☐ 2-pieces – Do you use per	er? (Select one) Cylindrical Irregular (Attach a picture or schematic) Oval Rectangular Other (Attach a picture or schematic) onstruct the container? (Select one) forated divider plates? Yes No How is the side seam sealed? (Select one) Cemented Welded

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2. Ceramic/Glass	
	Attach a picture or schematic)
b) Do you use perforated divider plates?	
c) Is overpressure used during the processing of the product to maintain container integrity? Yes (Continue to c.i) No (Continue to c.ii-c.iv)	
i. What is the total overpressure used during processing? (enter in pounds per square inch gauge (psig)) (Continue to Section D)	
ii. What is the percent (%) headspace? (enter in Fahrenheit)	
iv. What is the vacuum? (enter in inches of mercury (Hg))	
1v. What is the vacuum (effect in meteors of increary (11g))	
3. Flexible Pouch	
a) What is the shape of the container? (Select one) 🗌 Flat pouch 🔲 Gable top 🖂 Gable top/side gusseted 🗔 Gusseted 🗀 Irregular (Attach a picture or schematic)	
Other (Attach a picture or schematic)	
b) Is the container physically restricted during the processing of the product to control container thickness? Yes (Continue to b.i) No (Continue to c)	
i. Racks Other (Attach a picture)	
c) Is overpressure used during the processing of the product to control container thickness? Yes (Continue to c.i) No (Continue to d)	
i. What is the total overpressure used during processing? (enter in pounds per square inch gauge (psig))	
1. What is the total overpressure used during processing (enter in pounds per square men gauge (psig))	
d) What is the maximum thickness during retort processing? (enter in inches)	
e) What is the maximum residual air? (enter in cubic centimeters)	
4. Retortable Paperboard Carton	
a) What is the shape of the container? (Select one) Rectangular Other (Attach a picture or schematic)	
b) Is the container physically restricted during the processing of the product to control container thickness? Yes (Continue to b.i) No (Continue to c) i. Racks Other (Attach a picture)	
1. Tracks to other (Attach a picture)	
c) Is overpressure used during the processing of the product to control container thickness? Yes (Continue to c.i) No (Continue to d)	
i. What is the total overpressure used during processing? (enter in pounds per square inch gauge (psig))	
d) What is the maximum thickness during retort processing? (enter in inches)	
e) What is the maximum residual air? (enter in cubic centimeters)	
5. Rigid Container (10 pounds or more of product)	
a) What is the shape of the container? (Select one) Cylindrical Rectangular Other (Attach a picture or schematic)	
b) What kind of rigid container is used? (Select the description that best applies to the container (i.e., drum, pail, or tote) and select the material that makes up th	aat container)
☐ Drum (Large industrial cylinder container) (Select one) ☐ Aluminum/Steel ☐ Fiberboard ☐ Plastic ☐ Other	,
Pail (Select one) Aluminum/Steel Fiberboard Plastic Other	
Tote (Large industrial rectangular container) (Select one) Aluminum/Steel Fiberboard Plastic Other	
Other (Attach a picture or schematic)	
6. Semi-Rigid	
a) What is the shape of the container? (Select one) Bowl Cylindrical Irregular (Attach a picture or schematic) Oval Rectangular Tray	
Other (Attach a picture or schematic)	
b) Is this a compartmentalized container? Yes How many compartments? _ No	
c) What is the predominant material used to make the body of the container? (Select one)	
HDPE (high-density polyethylene) HDPP (high-density polypropylene) Paperboard PET (polyethylene teraphthalate) Other	
d) What is the predominant material used to make the lid of the container? (Select one)	
Aluminum HDPE (high-density polyethylene) HDPP (high-density polypropylene) Nylon PET (polyethylene teraphthalate) Other	Not Applicabl
e) How is the lid sealed to the body of the container? (Select one)	

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Double Seam Heat Seal Induction Weld Press Twist Snap On Threaded Closure Ultrasonic Seal Other f) Is the container physically restricted during the processing of the product to control container thickness? Yes (Continue to f.i) No (Continue to g)	Not Applicable
i. Racks Other (Attach a picture)	
g) Is overpressure used during the processing of the product to control container thickness? Yes (Continue to g.i) No (Continue to h) i. What is the total overpressure used during processing? (enter in pounds per square inch gauge (psig))	
h) What is the maximum thickness during retort processing? (enter in inches) i) What is the maximum residual air? (enter in cubic centimeters)	
7. Other (Enter container type)	
a) Attach schematic or picture of container.b) Specify the material that, based on weight, is the predominant material used to make the container stock. This is the material that constitutes the highest weight	value of the container stock
c) Specify the material that, based on weight, is the predominant material used to make the lid stock. This is the material that constitutes the highest weight value of the material that constitutes the highest weight weight which the material that the mat	
have a lid, specify Not Applicable	
d) Specify the method used to seal the lid to the body of the container. If the container does not have a lid, specify Not Applicable	_
Continue to Section D.	
D. Container Size: Note: You are required to complete either D.1 (Dimensions) or D.2 (Volume). You may complete D.2 if the thermal process mode in Section G is identified a (HTST); 2) Hot Fill and Hold; or 3) Steam Jacketed Kettle.	s: 1) High Temperature Short Time
If you are completing D.2 because you selected HTST, Hot Fill and Hold, or Steam Jacketed Kettle, and if 1) your product is a cheese product under Section under Section C, you may indicate "Not Applicable" in your response to D.2. In all other circumstances, if you are completing D.2 in accordance with the diselect "Not Applicable."	
For all other circumstances, complete D.1. Section D.3 (net weight) is optional information.	
1. Dimensions:	
 a) Diameter Height (Use for cylindrical shapes) (see accompanying instructions for proper coding) b) Length Width Height (Use this option for container shapes other than cylindrical) (see accompanying instructions for proper 	coding)
2. Volume: (Select one)	
3. Net Weight (Optional): (enter in ounces)	

Voluntary Filing: Stop here and go to the signature section at the bottom of the form.

E. Processing Method: Acidification:

- What is natural pH of the product before acidification? _ _.__
 What is the finished equilibrium pH of the product after acidification? _ _.__

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3. What is the maximum time it takes for 4. Method of Acidification (Select one)	☐Addition of Acid Foods				
5. Acidifying Agent(s): (Select all that a Acetic Acid Acid Food(s) Acid Food(s) Malic Acid Phosphoric Acid	Apple Product(s) (other that	an vinegar) Citric Acid Tamarind Product(s) Tarta	Fruit Juice(s) Fumaric Acid Tomato P	aric Acid Gluconic Acid Hyroduct(s) Vinegars (All Types	vdrochloric Acid
6. Microbial Preservative(s): (Select al	ll that apply and enter pe	rcent concentration(s))			
Microbial Preservative	Concentration (%)	Microbial Preservative	Concentration (%)	Microbial Preservatives	Concentration (%)
Alcohol Ascorbic Acid Benzoic Acid Butylated Hydroxyanisole Butylated Hydroxytoluene Calcium Chloride Calcium Propronate Calcium Sorbate Erythorbic Acid Ethanol Gucono Delta Lactone Polysorbate		Potassium Benzoate Potassium Bisulphate Potassium Metabisulphite Potassium Propionate Potassium Sorbate Potassium Sulphite Propylparaben Salt Sodium Benzoate Sodium Bisulphate Sodium Chloride Sodium Erythorbate		Sodium Metabisulfite Sodium Polyphosphate Sodium Propionate Sodium Sorbate Sodium Sulfite Sorbic Acid Trisodium Citrate None	
Continue to Section F.		\wedge			
F. Scheduled Process Source:					
1. Process Source: a) What is the Process b) What is the date of	s Source? the Process Source (mm/d	d/yyyy)?//	(Attach supp	oort documentation)	
Continue to Section G.					
G. Process Mode: (Select one)					
 High Temperature Short Time (HT 2. Hot Fill and Hold Steam Jacketed Kettle 	ST)				
When option 1, 2, or 3 is selected, continue	e to Section H.				
 4. Batch Agitating Retort 5. Cold Fill and Hold (Attach support) 6. Crateless Retort 7. Heating Tunnel – Steam or Water (v. B. Hydrostatic Retort) 9. Sterilmatic 		ersion, water spray, or steam)			

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11.	Still Reto Water B Other: _		ter)	(Attach	support docu	mentation)									
		·12 is selected, co	ontinue to Sect												
H. Con	tainer and	d Container Clos	sure Treatmen	t: (Complete t	his section ON	NLY for Pro	cess Modes:	1) High T	emperatu	re Short '	Гime (HTS	T); 2) Hot I	Fill and Hold;	3) Steam Jac	eketed Kettle)
Describ	e how the	container, heads	pace, and interi	or surface (the	surfaces that ar	e in contact v	with the food	l) of the co	ntainer clo	sure are tr	eated. (Sele	ect one)			
	Asepticall a) What is	y Filled: s the filler name a	nd model?												
	Steam Tur a) What is b) What is	nnel: s the process time s the temperature	? (Select in the steam tur	one) Second	ds Minutes	neit)									
a)	. Select or Inve	thold: the temperature of the containe ersion/Laydown of the Closure ther	r closure treatm of Container: H	ents. ow long is the	product inverte	ed/laid-down	? (Sele	ct one)	Seconds [
4. 🔲 '	Water spra a) What is b) What is	ay: s the process time s the temperature	? (Select of the water spi	one) Second	ds Minutes ter in Fahrenhe	eit)									
5. 🔲 (Other (Spe	ecify)													
Contin	ue to Sect	ion I.													
		ocess: (Do not v							ding, wh	nen appl	icable, ar	nd enter ni	umerical val		
Col. 1 Process	Col. 2 Step	Col. 3 Temperature	Col. 4 Process Time	Col. 5 Process	Col. 6 F value	Col. 7 Thruput	Col. 8 Headspace	Col. 9 a. Reel	b. Reel	c. Steps	d. Chain /	e. Cooker	f. Frequency	Col. 10 Maximum	Col. 11 Other
lo	ыср	remperature	Trocess Time	Temperature	(only one)	(Containers per Minute)	Heauspace	Speed	Diameter	per Turn of Reel	Conveyer Speed	Capacity	Strokes per Minute	Weight	Galei
						Sterilmatic or Heating Tunnel – Steam or Water ONLY	Batch Agitating Retort or Sterilmatic ONLY	Sterilmatic or Batch Agitating Retort ONLY	Sterilmatic ONLY	Sterilmatic ONLY		Sterilmatic ONLY	Oscillation Agitating ONLY		

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		☐ Min. Initial☐ Fill	☐ Seconds ☐ Minutes ☐ Hours		☐ Fo (F18/250) ☐ Other F Ref T z: (°F only)		☐ Net ☐ Gross ☐ NA				Flights (per minute)			□ Fill	
Number	Number	∘Fahrenheit	See above	∘Fahrenheit	Minutes	Number	Inches	RPM	Inches	Number	Number	Number	Number	Ounces	
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Comments:															
Full Name (Please Type or Print) Signature															
Establishment Name				State or Provi	nce	Con	untry (other			Date Telephone No					

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LACF Contact Information

For more information, contact the LACF Registration Coordinator by e-mail at LACF@FDA.HHS.GOV or phone: 240-402-2411

For paper submissions, send completed forms to:

Food and Drug Administration
LACF Registration Coordinator ((HFS-303)
Center for Food Safety and Applied Nutrition
5100 Paint Branch Parkway
College Park, MD 20740-3835

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Food and Drug Administration
Office of Chief Information Officer Paperwork Reduction Act
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